

Harley Benton

BA250H
bass head



Musikhaus Thomann e.K.

Treppendorf 30

96138 Burgebrach

Germany

Telephone: +49 (0)9546 9223-0

email: info@thomann.de

Internet: www.thomann.de

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Table of contents

1	General notes.....	4
2	Safety instructions.....	7
3	Installation and operation.....	11
4	Components and functions.....	14
5	Technical specifications.....	22
6	Protecting the environment.....	24


1 General notes


This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section gives an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Installation and operation

Unpack and check carefully there is no transportation damage before using the unit.

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

XLR connector for signal output



A male XLR panel connector is used for the signal output (LINE OUT). The figure and the table below show the pin assignment of a corresponding female XLR connector.

1	Ground
2	Signal (+)
3	Signal (-)

Jack plug for loudspeaker connection and signal input



The figure and the table show the pin assignment of the 1/4-inch (6.35-mm) monaural jack plug.

1	Signal
2	Ground

Jack plug for footswitch

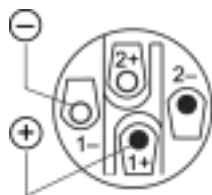
The figure and the table show the pin assignment of the 1/4-inch (6.35-mm) stereo jack plug.



1	Function 1
2	Function 2
3	Ground

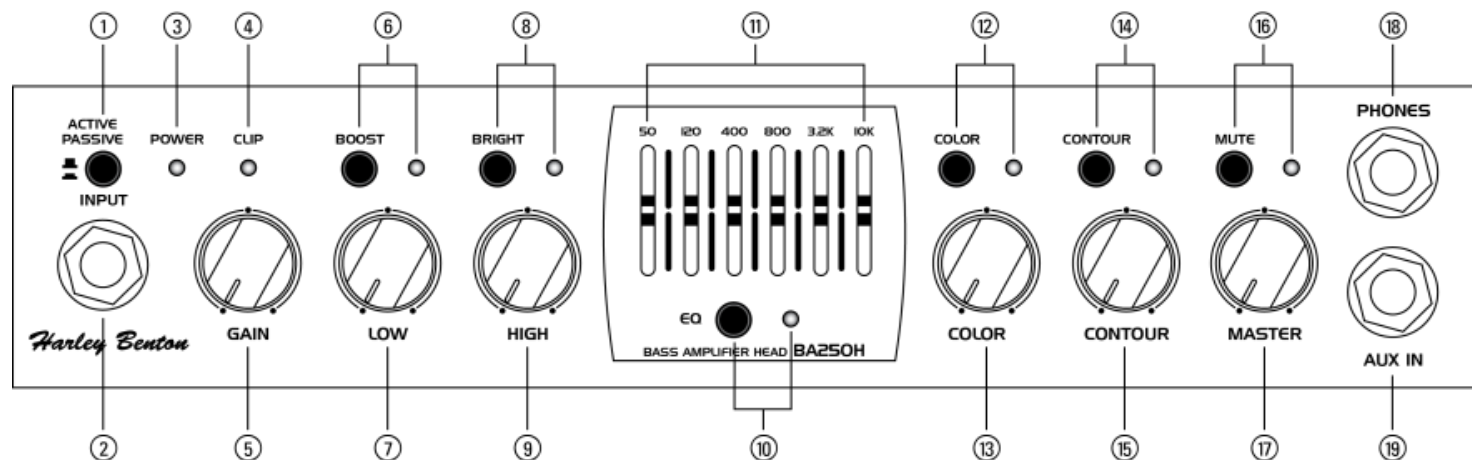
speakON connector for loud-speaker connection

The following figure shows the pin assignment of the lockable speakON panel connector.



4 Components and functions

Front panel



1	ACTIVE/PASSIVE Pressed: Connect with a passive bass guitar. Not pressed: Connect with an active bass guitar.
2	INPUT 1/4-inch (6.35-mm) monaural jack for the input signal from your bass guitar.
3	POWER The LED lights green when the amplifier turns on. It lights red when the power amplifier is clipping. In this case, turn down the volume using the "MASTER" control (17).
4	CLIP This LED lights when the pre-amplifier is overdriving. In this case, turn down the gain using the "GAIN" control (5).
5	GAIN Control to adjust the pre-amplifier gain level.

6	BOOST Push-button to boost low frequencies. The control LED lights when this function is activated.
7	LOW Control to cut or boost low frequencies by ± 12 dB
8	BRIGHT Push-button to boost high frequencies. The control LED lights when this function is activated.
9	HIGH Control to cut or boost high frequencies by ± 12 dB
10	EQ Push-button to activate the 6-band graphic equalizer. The control LED lights when the equalizer is activated.
11	6-band graphic equalizer for sound adjustment. The equalizer operates at mid-range frequencies of 50 Hz, 120 Hz, 400 Hz, 800 Hz, 3,2 kHz, and 10 kHz. By means of the slide controls, these frequencies can be individually boosted or cut by ± 12 dB.
12	COLOR Push-button to activate the timbre control (13). The control LED lights when this function is activated. With a footswitch connected, the "COLOR" control has no function.

13	COLOR	Timbre control – from vintage to modern.
14	CONTOUR	Push-button to activate the contour control. The control LED lights when this function is activated.
15	CONTOUR	Contour control to decrease mid-range frequencies while boosting low and high frequencies.
16	MUTE	<p>Push-button to mute the outputs for loudspeaker and LINE. The headphones output stays active. The control LED lights when this function is activated.</p> <p>With a footswitch connected, the "MUTE" control has no function.</p>
17	MASTER	Control for the overall volume. To avoid signal clipping, monitor the "POWER" LED (3) while adjusting the volume.

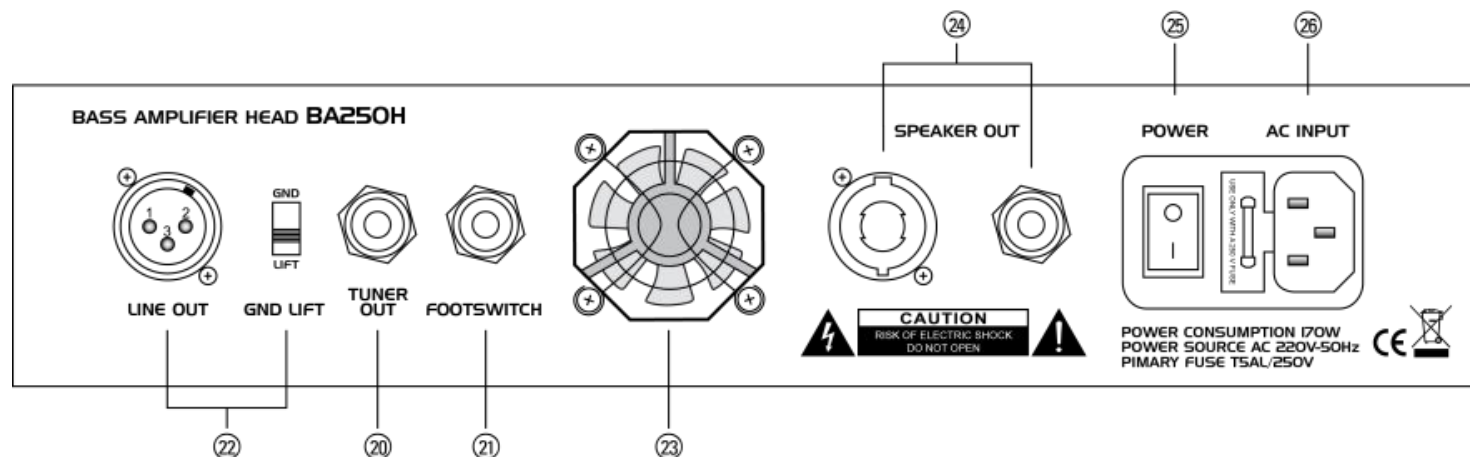
18 PHONES

¼-inch (6.35-mm) headphone jack. With headphones connected, the "SPEAKER OUT" and "LINE OUT" outputs are muted. To avoid noise and distorted sound signals, turn down the volume using the "MASTER" control (17) before inserting or removing the headphone plug.

19 AUX IN

Additional signal input that is fed in after the sound control and the equalizer. Use the "MASTER" control (17) to adjust the volume.

Rear panel



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20	TUNER OUT ¼-inch (6.35-mm) monaural jack socket for a tuner.
21	FOOTSWITCH ¼-inch (6.35-mm) stereo jack to connect an optional double footswitch for the "MUTE" and "COLOR" functions.
22	LINE OUT Male XLR panel connector as signal output for direct connection with a mixer, other power amplifiers or a recording device. GND LIFT If a ground loop causes hum, use this switch to disconnect the ground line of LINE OUT.
23	Fan The fan speed varies according to the chassis inside temperature. Do not block the fan.
24	SPEAKER OUT Loudspeaker output, the signal is available in parallel on both a ¼-inch (6.35-mm) monaural jack and a lockable speakON panel jack.

25 POWER

Power on/off switch. Switches the unit on and off.

26 AC INPUT

Plug for mains cable with fuse holder

5 Technical specifications

Input	–40 dBu at 1 M Ω ; ¼-inch (6.35-mm) jack
Gain	+33 dB max.
Low-frequencies control	± 12 dB at 100 Hz
High-frequencies control	± 12 dB at 10 kHz
Equalizer	± 12 dB at 50 Hz, 120 Hz, 400 Hz, 800 Hz, 3,2 kHz, and 10 kHz respectively
Color control	700 Hz...20 kHz
AUX input	–10 dBu at 22 k Ω ; ¼-inch (6.35-mm) jack
Headphones output	20 mW at 32 Ω ; ¼-inch (6.35-mm) jack
Loudspeaker output	250 W at 4 Ω , 125 W at 8 Ω ; ¼-inch (6.35-mm) jack and speakON panel jack
Line Out	Balanced male XLR panel connector
Input voltage	230 VAC, 50 Hz
Fuse	5 A / 250 V, slow

Dimensions (W × D × H)	12.24 in × 9.96 in. × 2.52 in. (311 mm × 253 mm × 64 mm)
Weight	7.05 lbs (3.2 kg)

6 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Disposal of your old device



This device is subject to the European directive 2002/96/EC.

Do not dispose the device with your normal household waste.

Dispose this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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